

MicroBooNE Detector Assembly and Experiment Update

All Experimenters Meeting

April 1st, 2013

Ryan A. Grosso University of Cincinnati On behalf of the MicroBooNE Collaboration

MicroBooNE (E-974)

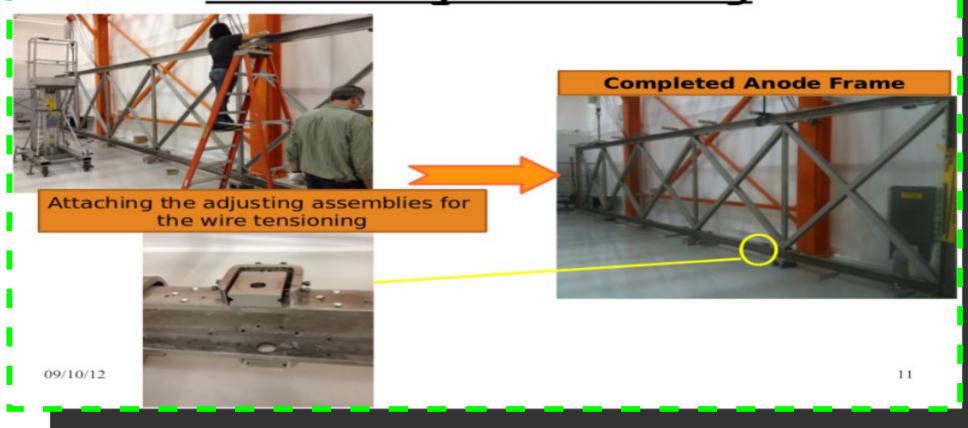
- Liquid Argon Time Projection Chamber
 (LAr TPC)
 - 170 tons LAr (~84t active)
 - Located in Booster Neutrino
 Beamline (BNB)





Last Report (Fall '12)

Assembly Activity at DØ Assembly Building



* Slide: Jonathan Asaadi, AEM 9/10/12

Where We Are Now

TPC Structure Complete



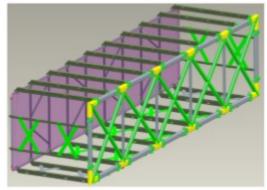
- Many hours of work from undergraduates, gradstudents, post-docs, scientists, and technicians.

- SPECIAL THANKS: Jen Raaf & John Voirin





- All signal wires (8000+) are at FNAL
- Ready to be installed & tensioned









CRYOSTAT

Arrived at FNAL
 March 8th







BEST BIRTHDAY GIFT EVER!!!









Tech Team

 With out our stellar technicians none of this would be possible. THANK YOU ALL!



Bryan Johnson, Tom Olszanowski, Mark Shoun, John Voirin, John Cornele

* Not Pictured: Tim Griffin, Andrew Lathrop, Koroush Taheri Leak Check & Cryostat Cleaning

Roberto Acciarri

Thanks to DØ Crew Pete Simon et al.

Wash 1: Rinse

Wash 3: Rinse

Wash 5: Rinse



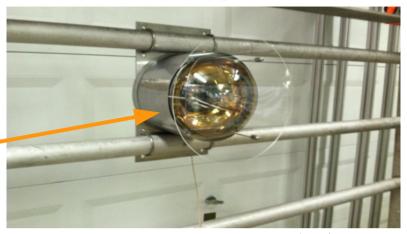
All Clean!

Leak Check



PMT System

PMT mount with acrylic plate for wavelength shifter



*Special Thanks to Eric James

PMT mounts look great!







PMT racks will be at FNAL within the week!

Test Fit of TPC & PMT





TPC cart: Load ~12,000 lbs

TPC Rails

TPC Test Fit Tomorrow

PMT Test Fit April 8th







Thompson Linear Bearing



LArTF







Dixon Bogert

Almost There
Beneficial Occupancy by mid-April

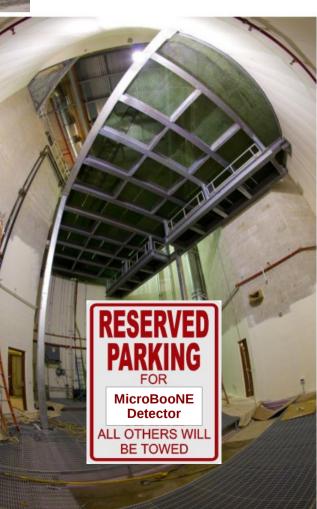




Electrical conduit installed

Removable Roof





Upcoming Work

- Lots of activity thus far and more to go
 - MicroBooNE is committed to safety

No injuries!



- Many thanks to all the undergraduates, grad-students, post-docs, scientists, and technicians who have contributed!
- Keep an eye out for exciting update from MicroBooNE in the weeks to come.

--Please come visit